

Attorney Docket No. 17342-002001
Serial No. 09/751,208
Amendment dated May 20, 2004
Reply to Office Action dated February 20, 2003

Amendment to the Claims:

This listing of claims replaces all prior versions, and listings, of claims in the application:

1. (Currently amended) An apparatus for measuring dimensions of an object comprising:

[[A]] a source of microwave signals having a predetermined amplitude and frequency, ~~(B) transmitting means for radiating said~~ including an array of microwave radiating antennas, spaced from one another along a first direction; ~~signals, (C) receiving means for receiving said microwave signals,~~

at least one microwave receiver antenna which is located spaced from said radiating antennas, to receive radiated microwave signals that have passed through a space;

a processor that evaluates an output from said microwave receiver; and

~~(D)~~ a movement part which moves said radiating antennas along a second direction which is substantially orthogonal to said first direction during a time of scanning ~~processor means for evaluating such received signals.~~

2. (Cancelled)

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3. (Currently amended) The apparatus of claim ~~[[2]]~~ 1, in which ~~such miniature~~ said radiating antennas are horizontally polarized.

4. (Currently amended) The apparatus of claim 1, in which ~~such~~ said at least one of said radiating antennas or receiving antennas ~~receiving means~~ comprises an antenna array of a plurality of miniaturized antennas.

5. (Currently amended) The apparatus of claim 4, in which ~~such~~ each of said miniature antennas are horizontally polarized.

6. (Cancelled)

7. (Currently amended) The apparatus of claim 1, wherein ~~such~~ said radiating antennas are arranged along ~~transmitting means and such receiving means are formed in a circular configuration.~~

8. (Currently amended) The apparatus of claim ~~[[1]]~~ 9, in which ~~such~~ said processor means calculates one or more of the following measurements of the human being's: (A) height; (B)

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head size; (C) neck; (D) chest; (E) waist; (F) hips; (G) inseam;
and (H) sleeve.

9. (Currently amended) The apparatus of claim 1, wherein
~~such~~ said object being measured comprises a human being.

10. (Original) The apparatus of claim 1, wherein such
processor means comprises a computer.

11. (Currently amended) The apparatus of claim 1 further
comprising: (A) at least one ~~server~~ first computer unit; (B) a
means for relaying said measured dimensions from said processor
means to said at least one server unit; and (C) a means second
computer for relaying said measured dimensions from said at
least one server unit to at least one user.

12-13. (Cancelled)

14. (Currently amended) The method of claim ~~[[12]]~~ 20, ~~in~~
~~which such~~ wherein said using comprises obtaining at least one
measurement value which is selected from the group consisting of
the human being's: (A) height; (B) head size; (C) neck; (D)

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chest; (E) waist; (F) hips; (G) inseam; and ~~[[D]]~~ (H) sleeve
size.

15-16. (Cancelled)

17. (Currently amended) A method of uniquely identifying a
human ~~measuring the dimensions of an object~~ comprising:

generating microwaves,

directing the microwaves toward said ~~object~~ human,

measuring the unabsorbed microwave energy, ~~and~~

determining the size and shape of said ~~object~~ human from

said unabsorbed microwave energy; and

using said size and shape to uniquely identify said human.

18. (Cancelled)

19. (Currently amended) The method of claim 17, in which
said microwaves are generated by an oscillator for generating
microwaves of a predetermined frequency in the microwave region
chosen for maximum absorption by the ~~object~~ human.

Kindly cancel claim 12 and substitute the following new
claims therefor.

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20. (New) A method, comprising:

transmitting a microwave signal through a specified area
through which a human subject is intended to pass;

determining locations where the microwave signal has been
blocked by the human subject;

using said determined locations to uniquely identify an
individual.

21. (New) A method as in claim 20, wherein said using
comprises determining body measurements using said locations,
and determining ratios between different body measurements to
carry out said unique identifying.

22. (New) A method as in claim 20, wherein said
transmitting a microwave signal comprises forming an array of
microwave radiators along a first substantially linear
direction, forming an array of microwave receivers along said
first direction to receive microwave radiated by said microwave
radiators; and simultaneously moving said microwave radiators
and said microwave receivers along a second linear direction
that is substantially orthogonal to said first linear direction.

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23. (New) A method as in claim 22, wherein said radiators and receivers are each located along the perimeter of a hollow disk which is linear in said first direction, and round in outer circumference.

24. (New) A method as in claim 22, wherein said radiators and receivers are each located along a substantially straight line.

25. (New) A method as in claim 1, wherein said processing evaluates the output from the microwave receiver to determine characteristics of a human located in said space, which has been scanned by said microwave signals, and to uniquely identify said human.